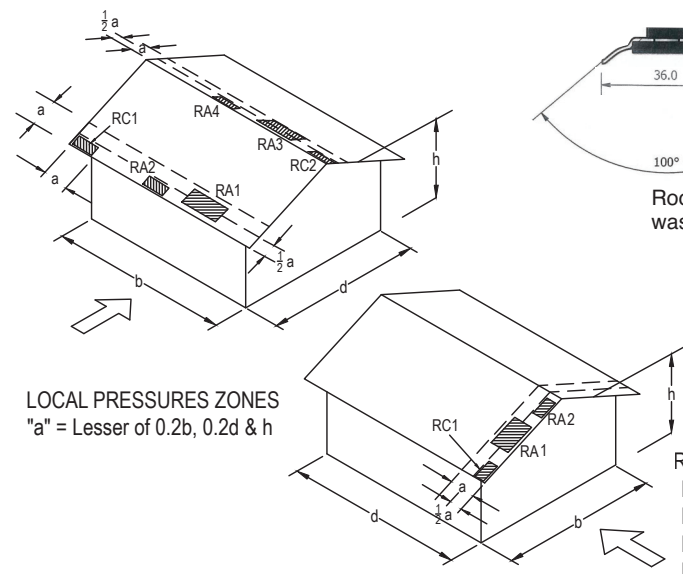
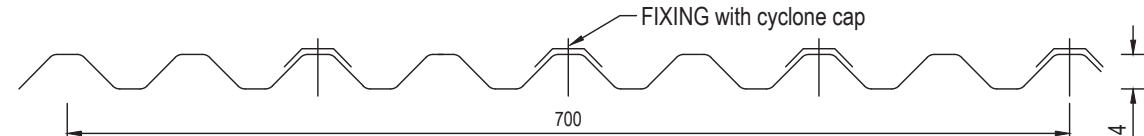


This product has been determined to satisfy NCC Performance Requirement H1P1 for structural resistance of materials and forms of construction in high wind areas



Roof-lok cyclone plate washer as per DTC M/709



STEELINE STEEL SPAN ROOF SHEETING

MATERIAL SPECIFICATION

METAL TYPE	THICKNESS	GRADE	FINISH	COVER
AS1397-1984	0.42mm BMT	550 MPa	ZINCALUME,	700mm + - 4
G550 / AZ150	0.48mm BMT	550 MPa	COLORBOND	
	0.60mm BMT	550 MPa		

MINIMUM FIXING REQUIREMENTS

FIXING	NO. OF FIXING	CYCLONE CAP	BATTEN TYPE
14-10x65 T17	4	Roof-Lok	Timber MGP12 or F8
14-10x50 Tek's	4	Roof-Lok	Steel 1.5mm G450
M6.5-12x55 Roof Zips	4	Roof-Lok	Steel 0.75mm G550

NOTES:
 - ALL FIXINGS SHALL HAVE CLASS 4 PROTECTIVE FINISHES.
 - SCREW LENGTHS DO NOT ALLOW FOR INSULATION THICKNESS. ADJUST SCREW LENGTH ACCORDINGLY.
 - SCREWS TO COMPLY WITH AS3566.1-2002 SELF-DRILLING SCREWS FOR BUILDING AND CONSTRUCTION INDUSTRIES- GENERAL REQUIREMENTS AND MECHANICAL PROPERTIES.

RA1 - KL = 1.5 - Upwind leading edges within "a" of the edge
 RA2 - KL = 2.0 - Upwind leading edges within "a"/2 of the edge
 RA3 - KL = 1.5 - Downwind side of hips and ridges within "a" of the edge - When roof pitch > or = 10°
 RA4 - KL = 2.0 - Downwind side of hips and ridges within "a"/2 of the edge - When roof pitch > or = 10°
 RC1 - KL = 3.0 for Roof pitch < 10° - Upwind corners within "a" of edge
 RC2 - KL = 3.0 for 10° and greater - Downwind corners within "a" of edge

MAX. ALLOWABLE ROOF SHEETING SPANS

Vsit (m/s)	qu (kpa)	KL local factor	Design pressure Pe (kPa)	Maximum allowable end span									Maximum allowable mid span			Maximum allowable end span									Maximum allowable mid span														
				Fixing to Steel 1.5mm G450 Min. or Timber MGP12 (F8) JD4 Min. with 35mm Embedment Min.																								Fixing with M6.5 - 12 x 55 screw into 0.75 BMT G550 steel batten											
				For single span steelspan only			For double span steelspan only			For three or more span steelspan			For three or more span steelspan			For single span steelspan only			For double span steelspan only			For three or more span steelspan			For three or more span steelspan														
				0.42 BMT	0.48 BMT	0.6 BMT	0.42 BMT	0.48 BMT	0.6 BMT	0.42 BMT	0.48 BMT	0.6 BMT	0.42 BMT	0.48 BMT	0.6 BMT	0.42 BMT	0.48 BMT	0.6 BMT	0.42 BMT	0.48 BMT	0.6 BMT	0.42 BMT	0.48 BMT	0.6 BMT	0.42 BMT	0.48 BMT	0.6 BMT	0.42 BMT	0.48 BMT	0.6 BMT									
76	3.47	1	5.54	1230	1350	1540	1230	1350	1440	1330	1460	1570	1470	1630	1760	1230	1350	1520	610	610	610	660	660	660	740	740	740												
		1.5	7.10	1080	1200	1360	1080	1120	1120	1170	1230	1230	1300	1380	1380	1080	1190	1190	470	470	470	520	520	520	580	580	580												
		2	8.66	980	1080	1230	920	920	920	1000	1000	1000	1130	1130	1130	970	970	970	390	390	390	420	420	420	470	470	470												
		3	11.78	840	930	1060	670	670	670	740	740	740	830	830	830	710	710	710	280	280	280	310	310	310	350	350	350												
73	3.20	1	5.12	1280	1410	1610	1280	1410	1560	1380	1520	1710	1540	1700	1910	1280	1410	1610	660	660	660	720	720	720	810	810	810												
		1.5	6.55	1130	1240	1420	1130	1220	1220	1220	1330	1330	1360	1490	1490	1130	1240	1290	510	510	510	560	560	560	630	630	630												
		2	7.99	1020	1130	1280	1000	1000	1000	1090	1090	1090	1220	1220	1220	1020	1050	1050	420	420	420	460	460	460	510	510	510												
		3	10.87	870	970	1100	730	730	730	800	800	800	900	900	900	770	770	770	310	310	310	340	340	340	380	380	380												
69	2.86	1	4.57	1350	1490	1700	1350	1490	1700	1460	1610	1840	1620	1790	2040	1350	1490	1700	740	740	740	800	800	800	900	900	900												
		1.5	5.86	1190	1320	1500	1190	1320	1360	1290	1420	1490	1430	1580	1670	1190	1320	1440	570	570	570	630	630	630	700	700	700												
		2	7.14	1080	1190	1360	1080	1120	1120	1170	1220	1220	1300	1370	1370	1080	1180	1180	470	470	470	510	510	510	580	580	580												
		3	9.71	920	1020	1160	820	820	820	900	900	900	1010	1010	1010	870	870	870	340	340	340	380	380	380	420	420	420												
66	2.61	1	4.18	1410	1560	1780	1410	1560	1780	1530	1690	1920	1700	1880	2140	1410	1560	1780	800	800	800	880	880	880	990	990	990												
		1.5	5.36	1250	1380	1570	1250	1380	1490	1350	1490	1630	1500	1660	1830	1250	1380	1570	630	630	630	690	690	690	770	770	770												
		2	6.53	1130	1250	1420	1130	1220	1220	1220	1330	1330	1360	1500	1500	1130	1250	1290	510	510	510	560	560	560	630	630	630												
		3	8.89	970	1070	1220	900	900	900	980	980	980	1100	1100	1100	950	950	950	380	380	380	410	410	410	460	460	460												
62	2.31	1	3.69	1500	1660	1890	1500	1660	1890	1630	1800	2050	1810	2000	2280	1500	1660	1890	910	910	910	1000	1000	1000	1120	1120	1120												
		1.5	4.73	1330	1470	1670	1330	1470	1670	1440	1590	1810	1600	1760	2010	1330	1470	1670	710	710	710	780	780	780	870	870	870												
		2	5.77	1200	1330	1510	1200	1330	1380	1300	1440	1510	1450	1600	1700	1200	1330	1460	580	580	580	640	640	640	710	710	710												
		3	7.84	1030	1140	1300	1020	1020	1020	1110	1110	1110	1240	1250	1250	1030	1070	1070	430	430	430	470	470	470	520	520	520												
61	2.23	1	3.57	1530	1690	1920	1530	1690	1920	1650	1820	2080	1840	2030	2310	1530	1690	1920	940	940	940	1030	1030	1030	1160	1160	1160												
		1.5	4.58	1350	1490	1700	1350	1490	1700	1460	1610	1840	1620	1790	2040	1350	1490	1700	730	730	730	800	800	800	900	900	900												
		2	5.58	1220	1350	1540	1220	1350	1430	1320	1460	1560	1470	1620	1750	1220	1350	1510	600	600	600	660	660	660	740	740	740												
		3	7.59	1050	1160	1320	1050	1050	1050	1130	1150	1150	1260	1290	1290	1050	1110	1110	440	440	440	480	480	480	540	540	540												
56	1.88	1	3.01	1670	1840	2100	1670	1840	2100	1800	1990	2270	2000	2210	2520	1670	1840	2100	1120	1120	1120	1220	1220	1220	1370	1370	1370												
		1.5	3.86	1470	1620	1850	1470	1620	1850	1590	1760	2000	1770	1950	2230	1470	1620	1850	870	870	870	950	950	950	1070	1070	1070												
		2	4.70	1330	1470	1680	1330	1470	1680	1440	1590	1810	1600	1770	2010	1330	1470	1680	710	710	710	780	780	780	880	880	880												
		3	6.40	1140	1260	1440	1140	1250	1250	1230	1360	1360	1370	1520	1530	1140	1260	1320	520	520	520	570	570	570	640	640	640												
50	1.50	1	2.40	1870	2060	2350	1870	2060	2350	2020	2230	2540	2240	2480	2820	1870	2060	2350	1410	1410	1410	1540	1540	1540	1720	1720	1720												
		1.5	3.08	1650	1820	2070	1650	1820	2070	1780	1970	2240	1980	2190	2490	1650	1820	2070	1100	1100	1100	1200	1200	1200	1340	1340	1340												
		2	3.75	1490	1650	1880	1490	1650	1880	1610	1780	2030	1790	1980	2260	1490	1650	1880	900	900	900	980	980	980	1100	1100	1100												
		3	5.10	1280	1410	1610	1280	1410	1560	1380	1530	1710	1540	1700	1920	1280	1410	1610	660	660	660	720	720	720	810	810	810												

Notes covering basis of DTC (relevant test reports etc)

Test Report - The above specification is based on LHL testing Report No C081001-19 21/5/2009) by ENGTEST The University of Adelaide Australia. AND Blamore Test Report No 131 (20/3/2013) and 132 (20/3/2013)

*Checking Engineers Certification

Name: Wisnu Lim
 NT Rego Number: 145651ES
 Date: 8 June 2023
 Signature: [Signature]
 Must be an Australian registered structural engineer

**Certifying Engineers Certification

Name: John L Towler
 NT Rego Number: 24642ES
 Date: 8-6-23
 Signature: [Signature]
 Must be a registered structural engineer in the Northern Territory

Product Name
Steeline Steel Span Sheeting for Roofs

Product Description
Steel Span Screw Fixed Roof Sheeting

Manufacturer's Details
GENERAL ROOFING PRODUCTS PTY LTD
 24 Pruen Road, Berrimah, NT, 0828

- Design Criteria
- Wind speeds, pressures shall be determined in accordance with AS/NZS1170.2-2021, Structural Design Actions - Wind Actions,
 - Basic Regional Wind Velocity VR = 66m/sec (R=500)
 - Internal Pressure Coefficient Cpi = +0.7
 - Cpe = 0.9 for h/d ratios <= 0.5
 - Pe = qu x (Cpe x KL + Cpi Kv)
 - "a" = Minimum of 0.2*d or 0.2*b or h
 - Site wind speed calculated in accordance with AS/NZS1170.2-2021, Structural Design Actions - Wind Actions,
 - Climate change multiplier, Mc = 1.05 for Region B2, C & D. Mc = 1 for Region A (0 to 5) & B1.
 - Ms = Mt = Md = 1.0
 - Kce = Kci = Kv = Ka = Kp = 1.0
 - Vsit = VR Mc Md (Mz,cat Ms Mt)

- Limitations
- Pitch limitation is subject to drainage, to be checked separately
 - The span tables are suitable for single span, end spans and mid spans
 - For roof pitch < 10° note RC1 zone local factor in roof corners
 - Tabled Spacings are limited to h/d not greater than 0.5. For h/d>0.5 where Cpe > 0.9, refer to site specific engineer certification with adjusted Pe calculation.
 - Installation requires conventional edge flashing is installed over unapped edge sheets.
 - Sheeting overhang off edge purlin shall be limited to 150mm.
 - Foot traffic limits for normal loading shall be 1750mm for end spans and 2000mm for mid spans. Feet may be positioned anywhere on sheet.
 - Sheeting spans may be limited by the allowable spacing of the roof purlin. Refer to the relevant DTC for the purlin being used.
 - Other values of VR to be determined by design engineer, depending on the distance of the site from the smooth coastline.

Accepted for Inclusion in Deemed to Comply Manual

DTCM drawing number: M/363/01

Chairperson Signature: [Signature]
 Chairperson Name: Paul Nowland
 Date of Approval: 25/07/2023 Expiry Date: 25/07/2028